

CEGS-12390
(June 1993)
Superseding
CEGS-12390
(November 1988)
typed 31 Mar 94

SECTION 12390 - CABINETS AND COUNTERTOPS

PART 1 - GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

BUILDERS HARDWARE MANUFACTURERS ASSOCIATION (BHMA)

BHMA A156.9 (1988) Cabinet Hardware.

KITCHEN CABINET MANUFACTURERS ASSOCIATION (KCMA)

KCMA A161.1 (1990; Errata May 1991) Recommended
Performance & Construction Standards for
Kitchen and Vanity Cabinets.

NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)

NEMA LD 3 (1991) High-Pressure Decorative Laminates.

1.2 DESIGN

Cabinets shall be wood, factory-fabricated and finished in the manufacturer's standard sizes and finishes of the type, design, and configuration indicated. Cabinets shall be constructed as specified and shall meet the requirements of KCMA A161.1. Wall and base cabinet assemblies shall consist of individual units joined into continuous sections. Fastenings shall be accomplished to permit removal and replacement of individual units without affecting the remainder of the installation. Counters shall be provided with watertight sink rim when indicated. Drawers shall be removable and shall be equipped with position stops to avoid accidental complete withdrawals. Shelves shall be fixed or adjustable as indicated.

1.3 SUBMITTALS

Government approval is required for submittals with a "GA" designation; submittals having an "FIO" designation are for information only. The following shall be submitted in accordance with SECTION: 01300 - SUBMITTAL DESCRIPTIONS:

SD-01, Data\

Cabinets and Countertops\; *FIO*\.

Manufacturer's printed data, catalog cuts, and installation instructions.

SD-04, Drawings\

Cabinets and Countertops\; *FIO*\.

Drawings showing each type of cabinet and related item, and clearly indicating the complete plan and elevations of the cabinets and accessories and pertinent details of construction, fabrication, and attachments.

SD-09, Reports\

Cabinets and Countertops\; *FIO*\.

Test reports shall certify that all cabinets comply with the requirements of KCMA A161.1. Tests shall be conducted by independent laboratories approved by KCMA. KCMA certification seals affixed to the cabinets will be accepted in lieu of certified test reports.

SD-14, Samples\

Cabinets and Countertops\; *GA*\.

In lieu of individual samples, complete minimum size cabinets may be furnished as samples. Mock-up units are not acceptable. Samples shall be of sufficient size to show color pattern and method of assembly.

- a. Counter top and backsplash - One section, containing both.
- b. Door and drawer front - One of each, with hardware mounted.
- c. Melamine plastic color samples shall be approximately 2" x 3" size.

1.4 DELIVERY AND STORAGE

Cabinets shall be delivered to the jobsite wrapped in a protective covering. Cabinets shall be stored in an adequately ventilated, dry location that is free of dust, water, or other contaminants and in a manner to permit access for inspection and handling. Cabinets shall be handled carefully to prevent damage to the surfaces. Damaged items that cannot be restored to like-new condition shall be replaced.

PART 2 - PRODUCTS

2.1 CABINETS

Wall and base cabinets shall be of the same construction and same outside appearance. Door design shall be solid flush face. Corner cabinets shall be equipped with notched shelving as indicated. Shelves shall be fixed or fully adjustable as indicated. Adjustable shelves shall be capable of adjusting on approximately 1-1/4-inch increments. Shelves shall be supported by self-locking clips. Shelves shall be minimum 1/2-inch thick plywood or minimum 1/2-inch thick 45 pound density particle board. Drawer fronts shall be 5/8-inch thick, 5 ply hardwood plywood.

2.1.1 Frame Type Cabinets

The cabinets shall be constructed with frame fronts and solid ends, or frame construction throughout. Frame members shall be 3/4-inch thick by 1-1/2-inch wide; kiln-dried hardwood, glued together, and shall be either mortised and tenoned, dovetailed or doweled, nailed, stapled or screwed. Top and bottom corners shall be braced with either hardwood blocks that are glued together with water resistant glue and nailed in place, or metal or plastic corner braces. Backs of wall cabinets shall be 1/8-inch thick plywood. Backs of base and tall cabinets shall be 45 pound density particle board. Bottoms of cabinets shall be minimum 3/8-inch thick plywood sound grade and shall be braced with wood members glued in place. Cabinet ends shall be 5/8-inch thick hardwood plywood.

2.2 COUNTERTOPS AND BACKSPLASH

2.2.1 General

Countertop and backsplash shall be constructed of 3/4-inch thick, 45 pound density particle board core and shall be post formed cove type. Cove type shall be a single unit with self-edging and plastic laminate coved at the juncture of the countertop and backsplash. Backsplash shall be not less than 3-1/2 inches high. Edging and trim shall consist of plastic laminate cut and fitted to all exposed edges. End splashes constructed of 3/4-inch thick, 45 pound density particle board core shall be supplied.

2.2.2 Sink Rims

Sink rims shall be of the corrosion resistant steel clamping type, sized to the sink, and a standard product of a manufacturer regularly producing this type of equipment.

2.3 FINISH

2.3.1 Cabinet Finish

Where indicated cabinets shall be provided with a factory-applied durable finish of a type standard with the manufacturer. Cabinets shown to receive a natural finish shall be faced with lauan veneer. Cabinet finish shall be in accordance with paragraph FIELD FINISHING. Natural finish wood doors, drawer fronts, cabinet fronts, and exposed cabinet sides shall be fabricated of wood which will be free of extreme color variations within each panel or between adjacent panels. Exposed exterior surfaces shall be melamine plastic finish where indicated. Colors shall be as indicated.

2.3.2 Melamine Laminated Finish on Cabinets

Plywood, particle board or tempered hardboard cabinet backs shall be finished with a melamine laminate on the exposed side. Particle board shelves shall be covered on both sides with a laminated melamine finish. Melamine laminate shall conform to the requirements of NEMA LD 3 and laminate adhesive shall be contact type applied to both surfaces. Design, color, and finish shall be as indicated.

2.3.3 Melamine Laminates on Countertops

Continuous sheets of longest lengths practicable shall be provided. Joints in surface sheeting shall be tight and flush and held to a practicable minimum. When the countertop and backsplash are one unit, PF42 plastic laminate shall be used. Plastic laminate shall conform to the requirements of NEMA LD 3 and plastic laminate adhesive shall be contact type applied to both surfaces. For fully formed and cove type countertops, the post-forming plastic laminate shall not be bent to a radius smaller than the limit recommended by the plastic manufacturer. Design, color, and finish shall be as indicated.

2.3.4 Backer Sheets

Backer Sheets of high pressure plastic laminate, shall conform to NEMA LD 3, Grade BK20 and shall be applied to the underside of all core material. Design, color, and finish shall be as indicated.

2.4 HARDWARE

Hardware shall conform to BHMA A156.9, shall be suitable for kitchen cabinet use, and shall include all miscellaneous hardware for a complete installation. Door hinges shall be self-closing type. Drawer runners shall have nylon rollers standard with the manufacturer. Hardware and fastenings for doors and drawers with particle board cores shall be of the through-bolt type. The types and finishes of hardware shall be as follows:

TYPE	BHMA DESIGNATION NUMBER	FINISH
Concealed Hinges	B01601	603
Back Mounted Pulls	B02011	628
Mortise Mounted Adjustable Shelf Standards	B04071	603

Closed Shelf Rest for Standards	B04081	603
Side Mounted Drawer Slides	B05051	603

PART 3 - EXECUTION

3.1 INSTALLATION

Cabinets to receive field finishing shall be factory primed or sealed, as required, and then shall be finished in accordance with Section 09900 PAINTING, GENERAL. Factory applied sealer shall not prevent cabinets from accepting field stain and finish. Color shall be as indicated.

Cabinets shall be installed level, plumb, and true to line, and shall be attached to the walls or floors with suitable devices to securely anchor each unit. Countertops, accessories, and hardware shall be installed as indicated. Installation shall be in accordance with the manufacturer's approved printed instructions. The inner edge of sink cut-outs in laminated plastic tops shall be painted with a coat of semigloss enamel paint and sink flanges shall be set in a bed of sealant. Closer and filler strips and finish moldings shall be provided as required. Prior to final acceptance, doors shall be aligned, hardware adjusted, and cabinets left in a clean neat condition.

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W/Notice 1
(February 1993)
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CEGS-12503
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SECTION 12520 - LIGHTPROOF SHADES

PART 1 - GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

FEDERAL SPECIFICATIONS (FS)

FS L-S-001787	(Basic) Shade, Window, (Vinyl), with Roller, Slat, Ring Pull and Accessories and Vinyl Film (in Piece Goods).
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1.2 GENERAL

Lightproof shades shall be provided as indicated, complete with necessary brackets, fittings, and hardware. Equipment shall be mounted as indicated and shall be manually operated. The Contractor shall take measurements at the building and shall be responsible for the proper fitting and hanging of the equipment.

1.3 SUBMITTALS

Government approval is required for submittals with a "GA" designation; submittals having an "FIO" designation are for information only. The following shall be submitted in accordance with SECTION: 01300 - SUBMITTAL DESCRIPTIONS:

SD-04, Drawings\

Lightproof Window Shades\; *GA*\.

Drawings showing fabrication and installation details. The manufacturer's descriptive data will be acceptable, provided this literature accurately shows the items proposed to be furnished and the method of installation.

SD-14, Samples\

Lightproof Window Shades\; *GA*\.

Samples of the manufacturer's standard colors and cloth samples for color and pattern selection.

PART 2 - PRODUCTS

2.1 LIGHTPROOF WINDOW SHADES

Lightproof window shades shall conform to FS L-S-001787, except as modified below. Light traps shall be shop fabricated, and shall consist of a head box to house the shade roller, and U-shaped channels to serve as guides for the shade along the sides and to receive the bottom edge of the shade along the sill. Light trap shall be made of sheet steel having a minimum thickness of 22 gauge. The legs of the channels shall be not less than 1-3/4 inches long and separated by the minimum distance that will permit free operation of the shade. Edges of light trap coming into contact with the shade cloth shall be smooth. The exposed face of the head box shall be hinged or removable for access to the shade roller. The interior or unexposed surfaces of the light trap shall have a finish coat of flat black enamel. The exposed portions of the light trap shall have a factory-applied priming coat of gray paint. Finish painting is specified in SECTION: 09900 - PAINTING, GENERAL. Shade roller shall be manufacturer's standard product. Cloth shall be of type for blackout purposes. Color shall be ivory or as selected by the Contracting Officer from the manufacturer's standard color chart. The shade shall be made from a single piece of cloth. When not finished with a selvage, the vertical edges of the shade shall be bound or hemmed, using a high-grade thread. Needle holes shall be made lightproof by applying a suitable filler. The shade shall be stiffened by transverse steel bars of proper size and weight to hold the shade in the channel guides. These bars shall be spaced approximately 18 inches on centers and concealed in pockets in the shade. The bottom edge of the shade shall be fitted with a steel operating bar. Shades will engage positively with bottom rail through operating bar or chain pull. Bars shall be painted with flat black enamel. Pull cords shall be made of No. 4 braided nylon or beaded chain having not less than 175 pounds breaking strength.

PART 3 - EXECUTION

3.1 INSTALLATION

Installation shall be in accordance with the approved detail drawings. Brackets shall be installed level at a height that will permit proper operation of the equipment and prevent outside light from infiltrating the room. Light traps shall be closely fitted to the adjacent construction, and the connection shall be rigid and light-tight. Installation shall not be started until after the room painting and finishing operations are complete and the fastening devices are approved. Upon completion of the installation, the window shades shall be adjusted for form and appearance.

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SECTION 12540 - WINDOW BLINDS

PART 1 - GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

FEDERAL SPECIFICATIONS (FS)

FS AA-V-00200 (Rev B) Venetian Blinds.

NATIONAL FIRE PROTECTION (NFPA)

NFPA 701 (1989) Methods of Fire Test for
Flame-Resistant Textiles and Films.

1.2 GENERAL

Horizontal blinds shall be provided as indicated, complete with necessary brackets, fittings, and hardware. Each window covering type utilized shall be a complete unit produced by one manufacturer. Window coverings shall be provided in accordance with GENERAL NOTE 3 on Drawing Sheet A-7. Equipment shall be mounted as indicated and shall be manually operated. Windows to receive a covering shall be completely covered. The Contractor shall take measurements at the building and shall be responsible for the proper fitting and hanging of the equipment. Color shall be as selected from manufacturer's standard color chart.

1.3 SUBMITTALS

Government approval is required for submittals with a "GA" designation; submittals having an "FIO" designation are for information only. The following shall be submitted in accordance with SECTION: 01300 - SUBMITTAL DESCRIPTIONS:

SD-01, Data\

Window Coverings and Hardware\; *GA*\.

Manufacturer's data composed of catalog cuts, brochures, and product information.

SD-04, Drawings\

Window Coverings and Hardware\; *GA*\.

Drawings showing fabrication and installation details. The manufacturer's descriptive data will be acceptable, provided this literature accurately

shows the items proposed to be furnished and the method of installation. Drawings shall show layout of blinds and mounting details.

SD-14, Samples\

Window Coverings and Hardware\; *GA*\.

Three samples of each type and color of window covering specified. Blind slat shall be 6 inches in length for each color.

SD-19, Operations and Maintenance Manuals\

Window Coverings and Hardware\; *FIO*\

Maintenance instructions for window coverings.

1.4 DELIVERY AND STORAGE

The Contractor shall be responsible for the receipt, storage, and handling of materials and supplies necessary to provide a complete installation. Window coverings shall be delivered to the project site in the manufacturer's original unopened containers. Materials shall be stored flat in a clean dry area with temperature maintained above 50 degrees F.

PART 2 - PRODUCTS

2.1 WINDOW BLINDS

Each blind, including hardware, accessory items, mounting brackets and fastenings, shall be provided as a complete unit produced by one manufacturer. All parts shall be one color and match the color of the blind slat. Steel features shall be treated for corrosion resistance.

2.1.1 Horizontal Blinds

Horizontal blinds shall conform to FS AA-V-00200, Type II (1 inch slats), except as modified below. Blind units shall be capable of nominally 180 degree partial tilting operation and full-height raising. Blinds shall be inside mount.

2.1.1.1 Controls

The slats shall be tilted by a transparent tilting wand, hung vertically by its own weight, and shall swivel for easy operation. The tilter control shall be of enclosed construction. All moving parts and mechanical drive shall be made of compatible materials which do not require lubrication during normal expected life. The tilter shall tilt the slats to any desired angle and hold them at that angle so that any vibration or movement of ladders and slats will not drive the tilter and change the angle of slats. A mechanism shall be included to prevent over tightening. The wand shall be of sufficient length to reach to within 5 feet of the floor.

2.1.1.2 Intermediate Brackets

Intermediate brackets shall be provided for installation of blinds over 48 inches wide and shall be installed as recommended by the manufacturer.

2.1.1.3 Color

Color shall be ivory or as selected by the Contracting Officer from the manufacturer's standard color chart.

PART 3 - EXECUTION

3.1 INSTALLATION

Installation shall be in accordance with the approved detail drawings and manufacturer's installation instructions. Units shall be level, plumb, secure, and at proper height and location relative to window units. The Contractor shall furnish and install supplementary or miscellaneous items in total, including clips, brackets, or anchorages incidental to or necessary for a sound, secure, and complete installation. Installation shall not be initiated until completion of room painting and finishing operations. Upon completion of the installation, window coverings shall be adjusted for form and appearance, in proper operating condition, and free from damage or blemishes. Damaged units shall be repaired or replaced by the Contractor as directed by the Contracting Officer.

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